CLAIM AMENDMENTS

1	Claim I (currently amended): A network management system for discovering information
2	about a network, comprising:
3	a plurality of nodes;
4	plural discovery agents on said nodes adapted to discover information concerning said
5	network;
6	each of said discovery agents having an associated discovery capability;
7	each of said discovery agents having an associated discovery assignment; and
8	collectively, said agent discovery assignments being a subset of said agent discovery
9	capabilities.
1	Claim 2 (original): A system in accordance with Claim 1 wherein, collectively, said agent
2	discovery capabilities are overlapping and said agent discovery assignments are substantially
3	non-overlapping.
1	Claim 3 (original): A system in accordance with Claim 1 wherein said agent discovery
2	assignments are based on said discovery capabilities.
1	Claim 4 (currently amended): A system in accordance with Claim 1 wherein said agent
2	discovery assignments reflect one or more of data collection service registrations with said
3	plural discovery agents, agent cost to obtain network information, load balancing among said
4	plural discovery agents, and assignment churn.

Claim 5 (original): A system in accordance with Claim 1 wherein said agent discovery 1 2 assignments comprise one or both of inband and outband discovery assignments. Claim 6 (currently amended): A network management system for discovering information 1 2 about a network, comprising: 3 a network manager node interconnected to plural agent nodes; a network manager on said network manager node; 4 5 plural discovery agents on said plural agent nodes connected to said network manager 6 node; 7 each of said discovery agents having an associated discovery capability to obtain information concerning said network; 8 9 capability determining means for determining said agent discovery capabilities; assignment computation means for computing agent discovery assignments for one or 10 11 more of said discovery agents based on said agent discovery capabilities; and 12 assignment implementing means for implementing said agent discovery assignments at one or more of said discovery agents. 13 Claim 7 (original): A system in accordance with Claim 6 wherein said network manager is not 1 2 part of said network. Claim 8 (currently amended): A system in accordance with Claim 6 wherein one or more of 1

said <u>plural discovery</u> agents are associated with nodes in said network.

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- 1 Claim 9 (currently amended): A system in accordance with Claim 6 wherein said capability
- 2 determining means comprises first means in said network manager for requesting a capability
- poll, second means in said <u>plural discovery</u> agents for performing a capability query, and third
- 4 means in said plural discovery agents for providing a capability poll response to said network
- 5 manager.
- 1 Claim 10 (currently amended): A system in accordance with Claim 106 wherein said
- 2 assignment computation means is adapted to generate said agent assignments based on one or
- more of data collection service registrations between said network manager and said <u>plural</u>
- 4 <u>discovery</u> agents, agent cost to obtain network information, load balancing among said <u>plural</u>
- 5 <u>discovery</u> agents, and assignment churn.
- Claim 11 (original): In association with a data storage network having a plurality of managed
- 2 hosts, a plurality of storage devices, and a plurality of switching fabric nodes providing inband
- 3 interconnections between said managed hosts and said storage devices, a data storage network
- 4 management system for discovering information about said data storage network, comprising:
- a network manager connected to said managed hosts via outband connections;
- 6 plural inband discovery agents operating on said managed hosts;
- 7 plural outband discovery agents operating on said network manager;
- 8 each of said discovery agents having an associated discovery capability to obtain
- 9 information concerning said data storage network;
- agent capability determining logic in said discovery agents adapted to generate agent
- capability information sets identifying said agent discovery capabilities, said agent capability

- information sets being subsets of full agent discovery information sets obtainable by said
- 13 agents;
- assignment computation logic in said network manager adapted to compute agent
- discovery assignments for one or more of said discovery agents based on said agent discovery
- capability information sets; and
- assignment implementing logic in said one or more discovery agents for implementing
- said agent discovery assignments.
 - 1 Claim 12 (original): A method for obtaining intelligent discovery of network information in a
 - 2 network using a plurality of network discovery agents having mutually nonexclusive
 - 3 discovery capabilities, comprising:
 - 4 determining said agent discovery capabilities;
 - 5 computing agent assignments based on said agent discovery capabilities and a goal of
 - 6 limiting network discovery poll overhead; and
 - 7 implementing said agent assignments.
 - 1 Claim 13 (original): A method in accordance with Claim 12 wherein said agent discovery
 - 2 capabilities are determined by performing capability polls representing subsets of full network
 - 3 discovery polls.
 - 1 Claim 14 (original): A method in accordance with Claim 12 wherein said agent assignments
 - 2 are computed based on consideration of one or more of data collection service registrations

- 3 between said network manager and said agents, agent cost to obtain network information, load
- 4 balancing among said agents, and assignment churn.
- 1 Claim 15 (original): A method in accordance with Claim 12 wherein said agent assignments
- 2 are implemented by limiting the scope of agent discovery to a subset of said discovery
- 3 capabilities.
- 1 Claim 16 (original): A network manager for managing a data storage network, comprising:
- 2 agent discovery capability determining logic adapted to determine discovery
- 3 capabilities of discovery agents in said data storage network;
- 4 assignment computation logic adapted to compute agent discovery assignments based
- 5 on said agent discovery capabilities;
- 6 discovery poll request logic adapted to request network discovery from said agents
- 7 according to said agent discovery assignments; and
- 8 discovery poll response logic adapted to process network discovery received from said
- 9 agents in response to said network discovery requests.
- 1 Claim 17 (original): A network discovery agent for use in a data storage network, comprising:
- discovery capability logic adapted to determine and provide agent discovery capability
- 3 information to a requestor, said agent discovery capability information being a subset of all
- 4 discovery information obtainable by said agent; and
- 5 discovery query logic adapted to implement discovery queries based on agent
- 6 discovery assignment information determined from said capability information.

- 1 Claim 18 (original): A computer program product for obtaining discovery of network
- 2 information from plural information gathering agents, comprising:
- 3 one or more data storage media;
- 4 means recorded on said data storage media for programming a data processing
- 5 platform to operate as a network manager to perform intelligent network discovery in a data
- 6 storage network by:
- 7 determining discovery capabilities of said agents;
- 8 computing agent assignments based on said agent discovery capabilities;
- 9 requesting one or more of said agents to perform network discovery according to said
- agent assignments; and
- processing discovery information returned by said one or more agents.
- 1 Claim 19 (original): A computer program product in accordance with Claim 18 wherein said
- 2 agent discovery assignments are based on one or more of data collection service registrations
- 3 between said network manager and said agents, agent cost to obtain network information, load
- 4 balancing among said agents, and assignment churn.
- 1 Claim 20 (original): A computer program product for obtaining discovery of network
- 2 information from plural information gathering agents, comprising:
- 3 one or more data storage media;
- 4 means recorded on said data storage media for programming a managed host in a data
- 5 storage network to operate as an inband discovery agent or a network manager to operate as an

outband discovery agent that performs intelligent network discovery in conjunction with other 6 agents by: 7 providing agent discovery capability information to a requester; 8 receiving agent discovery assignments from said requester that are based on said 9 10 discovery capability information; 11 performing intelligent discovery according to said agent discovery assignments; and 12 providing intelligent discovery information received in response to said intelligent 13 discovery to said requester.